

## SEQUENCE LISTING

<110> ARES TRADING S.A.  
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 DAVIDS, Andrew Robert  
 PHELPS, Christopher Benjamin  
 POWER, Christine  
 BOSCHERT, Ursula  
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<120> CYTOKINE AGONIST MOLECULES

<130> C&R-116

<140> 10/579,113

<141> 2006-05-11

<150> PCT/GB2004/004772

<151> 2004-11-12

<150> GB0326393.6

<151> 2003-11-12

<160> 31

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<211> 85

<212> DNA

<213> Homo sapiens

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 gtctaccttc ttctgatcca gacag 85

<210> 2

<211> 29

<212> PRT

<213> Homo sapiens

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Leu Ala Pro Phe Val Tyr Leu Leu Leu Ile Gln Thr Asp  
 20 25

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<211> 342

<212> DNA

<213> Homo sapiens

<400> 3

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gcaccctgcg gcttgactat cgagaccgta tccgactctt tgaaaaatggc tccctgcttc 240
tcagcgacct gcagctggcc gatgagggca cctatgaggt cgagatctcc atcaccgacg 300
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<210> 4
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<212> PRT
<213> Homo sapiens

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1 5 10 15
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20 25 30
Ser Asp Arg Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val
35 40 45
Thr Val Val Gln Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro
50 55 60
Asp Tyr Arg Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu
65 70 75 80
Ser Asp Leu Gln Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser
85 90 95
Ile Thr Asp Asp Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val
100 105 110
Asp Val

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<210> 5
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<212> DNA
<213> Homo sapiens

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<400> 5
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ccttcacctt gaactgctca catgagaatg gcaccaagcc cagctacacc tggctgaagg 120
atggcaagcc cctcctcaat gactcgagaa tgctcctgtc ccccgaccaa aaggtgctca 180
ccatcaccgg cgtgctcatg gaggatgacg acctgtacag ctgcatgggtg gagaacccca 240
tcagccaggg cgcagcctg cctgtcaaga tcaccgtata ca 282

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<210> 6
<211> 94
<212> PRT
<213> Homo sapiens

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<400> 6
Pro Ile Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu

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1					5					10					15				
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			20				25						30						
Pro	Ser	Tyr	Thr	Trp	Leu	Lys	Asp	Gly	Lys	Pro	Leu	Leu	Asn	Asp	Ser				
			35				40						45						
Arg	Met	Leu	Leu	Ser	Pro	Asp	Gln	Lys	Val	Leu	Thr	Ile	Thr	Arg	Val				
			50				55						60						
Leu	Met	Glu	Asp	Asp	Asp	Leu	Tyr	Ser	Cys	Met	Val	Glu	Asn	Pro	Ile				
65				70						75						80			
Ser	Gln	Gly	Arg	Ser	Leu	Pro	Val	Lys	Ile	Thr	Val	Tyr	Arg						
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<212>      DNA
<213>      Homo sapiens

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<210>      8
<211>     31
<212>     PRT
<213>     Homo sapiens
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Arg Ser Ser Leu Tyr Ile Ile Leu Ser Thr Gly Gly Ile Phe Leu Leu
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Val Thr Leu Val Thr Val Cys Ala Cys Trp Lys Pro Ser Lys Arg  
20 25 30

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<211>      74
<212>      DNA
<213>      Homo sapiens

<400>      9
gaaacagaag aagctagaaa agcaaaaactc cctggaatac atggatcaga atgatgaccg      60
cctgaaacca gaag                                         74
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<210>      10
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<212>      PRT
<213>      Homo sapiens

<400>      10
Lys Gln Lys Lys Leu Glu Lys Gln Asn Ser Leu Glu Tyr Met Asp Gln
1          5          10          15

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Asn Asp Asp Arg Leu Lys Pro Glu Ala  
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<210> 11  
<211> 71  
<212> DNA  
<213> Homo sapiens

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tgaaggacaa g 71

<210> 12  
<211> 23  
<212> PRT  
<213> Homo sapiens

<400> 12  
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1 5 10 15

Leu Tyr Ile Leu Lys Asp Lys  
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<210> 13  
<211> 303  
<212> DNA  
<213> Homo sapiens

<400> 13  
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tctgcccgcc gctacccgcg ctccccagcg cgctccccag ccaccggccg gacacactcg 180  
tcgcccggca gggccccgag ctgcggcgcc cgctcgcgca gcgcctcgcg cacactgcgg 240  
actgcgggcg tgcacataat ccgcgagcaa gacgaggccg gcccggtgga gatcagcgcc 300  
tga 303

<210> 14  
<211> 100  
<212> PRT  
<213> Homo sapiens

<400> 14  
Asp Ser Pro Glu Thr Glu Glu Asn Pro Ala Pro Glu Pro Arg Ser Ala  
1 5 10 15

Thr Glu Pro Gly Pro Pro Gly Tyr Ser Val Ser Pro Ala Val Pro Gly  
20 25 30

Arg Ser Pro Gly Leu Pro Ile Arg Ser Ala Arg Arg Tyr Pro Arg Ser  
35 40 45

Pro Ala Arg Ser Pro Ala Thr Gly Arg Thr His Ser Ser Pro Pro Arg  
50 55 60

Ala Pro Ser Ser Pro Gly Arg Ser Arg Ser Ala Ser Arg Thr Leu Arg  
65 70 75 80

Thr Ala Gly Val His Ile Ile Arg Glu Gln Asp Glu Ala Gly Pro Val  
85 90 95

Glu Ile Ser Ala  
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<210> 15  
<211> 1251  
<212> DNA  
<213> Homo sapiens

<400> 15  
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gtctaccttc ttctgatcca gacagacccc ctggaggggg tgaacatcac cagccccgtg 120  
cgcctgatcc atggcaccgt ggggaagtcg gctctgcttt ctgtgcagta cagcagtacc 180  
agcagcgaca ggccctgtagt gaagtggcag ctgaagcggg acaagccagt gaccgtggtg 240  
cagtcatttg gcacagaggt catcggcacc ctgcggcctg actatcgaga ccgtatccga 300  
ctctttgaaa atggctccct gcttctcagc gacctgcagc tggccgatga gggcacctat 360  
gaggtcgaga tctccatcac cgacgacacc ttcaactggg agaagaccat caaccttact 420  
gtagatgtgc ccattttcgag gccacaggtg ttggtggctt caaccactgt gctggagctc 480  
agcgaggcct tcaccttgaa ctgctcacat gagaatggca ccaagcccag ctacacctgg 540  
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aaccatca gccagggccg cagcctgcct gtcaagatca ccgtatacag aagaagctcc 720  
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gcctgtgga aacctccaa aaggaaacag aagaagctag aaaagcaaaa ctccctggaa 840  
tacatggatc agaatgatga ccgcctgaaa ccagaagcag acacctccc tcgaagtggg 900  
gagcaggaac ggaagaaccc catggcactc tatatcctga aggacaagga ctccccggag 960  
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taccgcgct cccagcgcg ctcctccagcc accggccgga cacactcgtc gccgcccagg 1140  
gcccagagct cgcgcggccg ctgcgcgagc gcctcgcgca cactgcggac tgcgggcgtg 1200  
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<210> 16  
<211> 416  
<212> PRT  
<213> Homo sapiens

<400> 16  
Met Lys Arg Glu Arg Gly Ala Leu Ser Arg Ala Ser Arg Ala Leu Arg  
1 5 10 15

Leu Ala Pro Phe Val Tyr Leu Leu Leu Ile Gln Thr Asp Pro Leu Glu  
20 25 30

Gly Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly  
35 40 45

Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg  
50 55 60

Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val  
 65 70 75 80  
 Gln Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg  
 85 90 95  
 Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu  
 100 105 110  
 Gln Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp  
 115 120 125  
 Asp Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro  
 130 135 140  
 Ile Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu  
 145 150 155 160  
 Ser Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro  
 165 170 175  
 Ser Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg  
 180 185 190  
 Met Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu  
 195 200 205  
 Met Glu Asp Asp Asp Leu Tyr Ser Cys Met Val Glu Asn Pro Ile Ser  
 210 215 220  
 Gln Gly Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg Arg Ser Ser  
 225 230 235 240  
 Leu Tyr Ile Ile Leu Ser Thr Gly Gly Ile Phe Leu Leu Val Thr Leu  
 245 250 255  
 Val Thr Val Cys Ala Cys Trp Lys Pro Ser Lys Arg Lys Gln Lys Lys  
 260 265 270  
 Leu Glu Lys Gln Asn Ser Leu Glu Tyr Met Asp Gln Asn Asp Asp Arg  
 275 280 285  
 Leu Lys Pro Glu Ala Asp Thr Leu Pro Arg Ser Gly Glu Gln Glu Arg  
 290 295 300  
 Lys Asn Pro Met Ala Leu Tyr Ile Leu Lys Asp Lys Asp Ser Pro Glu  
 305 310 315 320  
 Thr Glu Glu Asn Pro Ala Pro Glu Pro Arg Ser Ala Thr Glu Pro Gly  
 325 330 335  
 Pro Pro Gly Tyr Ser Val Ser Pro Ala Val Pro Gly Arg Ser Pro Gly  
 340 345 350

Leu Pro Ile Arg Ser Ala Arg Arg Tyr Pro Arg Ser Pro Ala Arg Ser  
355 360 365

Pro Ala Thr Gly Arg Thr His Ser Ser Pro Pro Arg Ala Pro Ser Ser  
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Pro Gly Arg Ser Arg Ser Ala Ser Arg Thr Leu Arg Thr Ala Gly Val  
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His Ile Ile Arg Glu Gln Asp Glu Ala Gly Pro Val Glu Ile Ser Ala  
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<210> 17  
<211> 1257  
<212> DNA  
<213> Mus musculus

<400> 17  
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cgtctgatcc acggcacagt ggggaagtcg gccctgcttt ccgtgcagta cagtagcacc 180  
agcagcgaca agcccgtagt gaagtggcag ctgaagcgtg acaagccagt gaccgtggtg 240  
cagtctatag gcacagaggt cattggcact ctgcggcctg actatcgaga ccgtatccgg 300  
ctctttgaaa atggctcctt gcttctcagc gacctgcagc tggcggatga gggaacctat 360  
gaagtggaga ttcccatcac tgacgacacc ttccacgggg agaagaccat caacctcacc 420  
gtggatgtgc ccatttcaag gccgcaggta ttagtggctt caaccactgt gctggagctc 480  
agtgaggcct tcacctcaa ctgctcccat gagaatggca ccaagcctag ctacacgtgg 540  
ctgaaggatg gcaaaccctt cctcaatgac tcccgaatgc tcctgtcccc tgacaaaaag 600  
gtgctcacca tcacccgagt actcatggaa gatgacgacc tgtacagctg tgtggtggag 660  
aaccocatca gccaggtcgg cagcctgcct gtcaagatca ctgtgtatag aagaagctcc 720  
ctctatatca tcttgtctac aggaggcatc ttctccttg tgacctggt gacagtttgt 780  
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ttggaataca tggatcagaa tgatgaccgc ctaaaatcag aagcagatac cctaccccca 900  
agtggagaac aggagcggaa gaaccatg gcactctata tcctgaagga taaggattcc 960  
tcagagccag atgaaaaccc tgctacagag ccacggagca ccacagaacc cggccccct 1020  
ggctactccg tgtcgccgcc cgtgcccggc cgtctccgg ggcttcccat ccgctcagcc 1080  
cgccgctacc cgcgctcccc agcacgttcc ctgcccactg gccggacgca cacgtcgcca 1140  
ccgcgggccc cgagctcgcc aggcgctcg cgcagctctt cgcgctcact gcggactgca 1200  
ggcgtgcaga gaatccggga gcaggacgag tcagggcagg tggagatcag tgctga 1257

<210> 18  
<211> 418  
<212> PRT  
<213> Mus musculus

<400> 18  
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20 25 30

Gly Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly  
35 40 45

Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Lys  
 50 55 60  
 Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val  
 65 70 75 80  
 Gln Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg  
 85 90 95  
 Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu  
 100 105 110  
 Gln Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp  
 115 120 125  
 Asp Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro  
 130 135 140  
 Ile Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu  
 145 150 155 160  
 Ser Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro  
 165 170 175  
 Ser Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg  
 180 185 190  
 Met Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu  
 195 200 205  
 Met Glu Asp Asp Asp Leu Tyr Ser Cys Val Val Glu Asn Pro Ile Ser  
 210 215 220  
 Gln Val Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg Arg Ser Ser  
 225 230 235 240  
 Leu Tyr Ile Ile Leu Ser Thr Gly Gly Ile Phe Leu Leu Val Thr Leu  
 245 250 255  
 Val Thr Val Cys Ala Cys Trp Lys Pro Ser Lys Lys Ser Arg Lys Lys  
 260 265 270  
 Arg Lys Leu Glu Lys Gln Asn Ser Leu Glu Tyr Met Asp Gln Asn Asp  
 275 280 285  
 Asp Arg Leu Lys Ser Glu Ala Asp Thr Leu Pro Arg Ser Gly Glu Gln  
 290 295 300  
 Glu Arg Lys Asn Pro Met Ala Leu Tyr Ile Leu Lys Asp Lys Asp Ser  
 305 310 315 320  
 Ser Glu Pro Asp Glu Asn Pro Ala Thr Glu Pro Arg Ser Thr Thr Glu  
 325 330 335



Pro Gly Pro Pro Gly Tyr Ser Val Ser Pro Pro Val Pro Gly Arg Ser  
                   340                  345                  350

Pro Gly Leu Pro Ile Arg Ser Ala Arg Arg Tyr Pro Arg Ser Pro Ala  
           355                          360                  365

Arg Ser Pro Ala Thr Gly Arg Thr His Thr Ser Pro Pro Arg Ala Pro  
       370                          375                  380

Ser Ser Pro Gly Arg Ser Arg Ser Ser Ser Arg Ser Leu Arg Thr Ala  
   385                          390                  395                  400

Gly Val Gln Arg Ile Arg Glu Gln Asp Glu Ser Gly Gln Val Glu Ile  
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Ser Ala

<210> 19  
 <211> 720  
 <212> DNA  
 <213> Homo sapiens

<400> 19  
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 cgctgatcc atggcacctg ggggaagtgc gctctgcttt ctgtgcagta cagcagtacc 180  
 agcagcgaca ggctgtagt gaagtggcag ctgaagcggg acaagccagt gaccgtggtg 240  
 cagtccattg gcacagaggt catcggcacc ctgcggcctg actatcgaga ccgtatccga 300  
 ctctttgaaa atggctccct gcttctcagc gacctgcagc tggccgatga gggcacctat 360  
 gaggtcgaga tctccatcac cgacgacacc ttactgggg agaagaccat caaccttact 420  
 gtagatgtgc ccatttcgag gccacaggtg ttggtggctt caaccactgt gctggagctc 480  
 agcgaggcct tcaccttgaa ctgctcacat gagaatggca ccaagcccag ctacacctgg 540  
 ctgaaggatg gcaagcccct cctcaatgac tcgagaatgc tctgtcccc cgaccaaag 600  
 gtgctcacca tcacccgcgt gctcatggag gatgacgacc tgtacagctg catggtggag 660  
 aaccccatca gccagggcgc cagcctgcct gtcaagatca ccgtatacag aagaagctcc 720

<210> 20  
 <211> 240  
 <212> PRT  
 <213> Homo sapiens

<400> 20  
 Met Lys Arg Glu Arg Gly Ala Leu Ser Arg Ala Ser Arg Ala Leu Arg  
 1                  5                  10                  15

Leu Ala Pro Phe Val Tyr Leu Leu Leu Ile Gln Thr Asp Pro Leu Glu  
           20                  25                  30

Gly Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly  
       35                  40                  45

Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg  
       50                  55                  60

Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val  
 65 70 75 80  
 Gln Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg  
 85 90 95  
 Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu  
 100 105 110  
 Gln Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp  
 115 120 125  
 Asp Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro  
 130 135 140  
 Ile Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu  
 145 150 155 160  
 Ser Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro  
 165 170 175  
 Ser Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg  
 180 185 190  
 Met Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu  
 195 200 205  
 Met Glu Asp Asp Asp Leu Tyr Ser Cys Met Val Glu Asn Pro Ile Ser  
 210 215 220  
 Gln Gly Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg Arg Ser Ser  
 225 230 235 240

<210> 21  
 <211> 621  
 <212> DNA  
 <213> Homo sapiens

<400> 21  
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 gacaagccag tgaccgtggg gcagtcatt ggcacagagg tcatcggcac cctgcggcct 180  
 gactatcgag accgtatccg actctttgaa aatggctccc tgcttctcag cgacctgcag 240  
 ctggccgatg agggcaccta tgaggtcgag atctccatca ccgacgacac cttcactggg 300  
 gagaagacca tcaaccttac tgtagatgtg cccatttcga ggccacaggt gttgggtggc 360  
 tcaaccactg tgctggagct cagcgaggcc ttcacctga actgctcaca tgagaatggc 420  
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 ctctgtcccc ccgaccaaaa ggtgctcacc atcaccgcg tgctcatgga ggatgacgac 540  
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 accgtataca gaagaagctc c 621

<210> 22  
 <211> 207  
 <212> PRT

<213> Homo sapiens

<400> 22

Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly Lys  
1 5 10 15

Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg Pro  
20 25 30

Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val Gln  
35 40 45

Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg Asp  
50 55 60

Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu Gln  
65 70 75 80

Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp Asp  
85 90 95

Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro Ile  
100 105 110

Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu Ser  
115 120 125

Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro Ser  
130 135 140

Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg Met  
145 150 155 160

Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu Met  
165 170 175

Glu Asp Asp Asp Leu Tyr Ser Cys Met Val Glu Asn Pro Ile Ser Gln  
180 185 190

Gly Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg Arg Ser Ser  
195 200 205

<210> 23

<211> 328

<212> DNA

<213> Homo sapiens

<400> 23

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gacaagccag tgaccgtggt gcagtcacatt ggcacagagg tcatcggcac cctgcggcct	180
gactatcgag accgtatccg actctttgaa aatggctccc tgcttctcag cgacctgcag	240
ctggccgatg agggcaccta tgaggtegag atctccatca ccgacgacac cttcactggg	300
gagaagacca tcaaccttac tgtagatg	328

<210> 24  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

<400> 24  
 Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly Lys  
 1 5 10 15  
 Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg Pro  
 20 25 30  
 Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val Gln  
 35 40 45  
 Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg Asp  
 50 55 60  
 Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu Gln  
 65 70 75 80  
 Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp Asp  
 85 90 95  
 Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val  
 100 105 110

<210> 25  
 <211> 1152  
 <212> DNA  
 <213> Homo sapiens

<400> 25  
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 tctgtgcagt acagcagtac cagcagcgac aggctgtag tgaagtggca gctgaagcgg 120  
 gacaagccag tgaccgtggg gcagtcatt ggacagagg tcatcggcac cctgcggcct 180  
 gactatcgag accgtatccg actctttgaa aatggctccc tgcttctcag cgacctgcag 240  
 ctggccgatg agggcaccta tgaggctcag atctccatca ccgacgacac cttcactggg 300  
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<211>    383
<212>    PRT
<213>    Homo sapiens

<400>    26
Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly Lys
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Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg Pro
          20              25              30

Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val Gln
          35              40              45

Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg Asp
          50              55              60

Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu Gln
          65              70              75              80

Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp Asp
          85              90              95

Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro Ile
          100             105             110

Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu Ser
          115             120             125

Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro Ser
          130             135             140

Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg Met
          145             150             155             160

Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu Met
          165             170             175

Glu Asp Asp Asp Leu Tyr Ser Cys Met Val Glu Asn Pro Ile Ser Gln
          180             185             190

Gly Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg Arg Ser Ser Leu
          195             200             205

Tyr Ile Ile Leu Ser Thr Gly Gly Ile Phe Leu Leu Val Thr Leu Val
          210             215             220

Thr Val Cys Ala Cys Trp Lys Pro Ser Lys Arg Lys Gln Lys Lys Leu
          225             230             235             240

Glu Lys Gln Asn Ser Leu Glu Tyr Met Asp Gln Asn Asp Asp Arg Leu
          245             250             255

Lys Pro Glu Ala Asp Thr Leu Pro Arg Ser Gly Glu Gln Glu Arg Lys
          260             265             270

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Asn Pro Met Ala Leu Tyr Ile Leu Lys Asp Lys Asp Ser Pro Glu Thr  
 275 280 285

Glu Glu Asn Pro Ala Pro Glu Pro Arg Ser Ala Thr Glu Pro Gly Pro  
 290 295 300

Pro Gly Tyr Ser Val Ser Pro Ala Val Pro Gly Arg Ser Pro Gly Leu  
 305 310 315 320

Pro Ile Arg Ser Ala Arg Arg Tyr Pro Arg Ser Pro Ala Arg Ser Pro  
 325 330 335

Ala Thr Gly Arg Thr His Ser Ser Pro Pro Arg Ala Pro Ser Ser Pro  
 340 345 350

Gly Arg Ser Arg Ser Ala Ser Arg Thr Leu Arg Thr Ala Gly Val His  
 355 360 365

Ile Ile Arg Glu Gln Asp Glu Ala Gly Pro Val Glu Ile Ser Ala  
 370 375 380

<210> 27

<211> 256

<212> PRT

<213> Homo sapiens

<400> 27

Met Lys Arg Glu Arg Gly Ala Leu Ser Arg Ala Ser Arg Ala Leu Arg  
 1 5 10 15

Leu Ala Pro Phe Val Tyr Leu Leu Leu Ile Gln Thr Asp Pro Leu Glu  
 20 25 30

Gly Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly  
 35 40 45

Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg  
 50 55 60

Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val  
 65 70 75 80

Gln Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg  
 85 90 95

Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu  
 100 105 110

Gln Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp  
 115 120 125

Asp Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro  
 130 135 140

Ile Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu  
145 150 155 160

Ser Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro  
165 170 175

Ser Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg  
180 185 190

Met Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu  
195 200 205

Met Glu Asp Asp Asp Leu Asp Ser Cys Val Val Glu Asn Pro Ile Asn  
210 215 220

Gln Gly Arg Thr Leu Pro Cys Lys Ile Thr Val Tyr Lys Lys Ser Ser  
225 230 235 240

Leu Ser Ser Ile Trp Leu Gln Glu Ala Phe Ser Ser Leu Gly Pro Trp  
245 250 255

<210> 28

<211> 256

<212> PRT

<213> Homo sapiens

<400> 28

Met Lys Arg Glu Arg Gly Ala Leu Ser Arg Ala Ser Arg Ala Leu Arg  
1 5 10 15

Leu Ala Pro Phe Val Tyr Leu Leu Leu Ile Gln Thr Asp Pro Leu Glu  
20 25 30

Gly Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly  
35 40 45

Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg  
50 55 60

Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val  
65 70 75 80

Gln Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg  
85 90 95

Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu  
100 105 110

Gln Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp  
115 120 125

Asp Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro  
130 135 140

Ile Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu  
145 150 155 160

Ser Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro  
165 170 175

Ser Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg  
180 185 190

Met Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu  
195 200 205

Met Glu Asp Asp Asp Leu Asp Ser Cys Val Val Glu Asn Pro Ile Asn  
210 215 220

Gln Gly Arg Thr Leu Pro Cys Lys Ile Thr Val Tyr Lys Lys Ser Ser  
225 230 235 240

Phe Tyr Ile Ile Cys Leu Lys Glu Ala Ser Ser Ser Phe Gly Pro Trp  
245 250 255

<210> 29

<211> 213

<212> PRT

<213> Homo sapiens

<400> 29

Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly Lys  
1 5 10 15

Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg Pro  
20 25 30

Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val Gln  
35 40 45

Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg Asp  
50 55 60

Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu Gln  
65 70 75 80

Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp Asp  
85 90 95

Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro Ile  
100 105 110

Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu Ser  
115 120 125

Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro Ser  
130 135 140



Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg Met  
 145 150 155 160

Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu Met  
 165 170 175

Glu Asp Asp Asp Leu Tyr Ser Cys Met Val Glu Asn Pro Ile Ser Gln  
 180 185 190

Gly Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg Arg Ser Ser His  
 195 200 205

His His His His His  
 210

<210> 30  
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 <212> PRT  
 <213> Homo sapiens

<400> 30  
 Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly Lys  
 1 5 10 15

Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg Pro  
 20 25 30

Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val Gln  
 35 40 45

Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg Asp  
 50 55 60

Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu Gln  
 65 70 75 80

Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp Asp  
 85 90 95

Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro Ile  
 100 105 110

Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu Ser  
 115 120 125

Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro Ser  
 130 135 140

Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg Met  
 145 150 155 160

Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu Met  
 165 170 175

Glu Asp Asp Asp Leu Tyr Ser Cys Met Val Glu Asn Pro Ile Ser Gln

180					185					190					
Gly	Arg	Ser	Leu	Pro	Val	Lys	Ile	Thr	Val	Tyr	Arg	Arg	Ser	Ser	Glu
		195					200					205			
Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro
	210					215					220				
Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys
225					230					235					240
Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val
				245						250				255	
Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp
			260					265					270		
Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr
		275					280					285			
Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp
	290					295					300				
Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu
305					310					315					320
Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg
				325					330					335	
Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu	Glu	Met	Thr	Lys
			340					345					350		
Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp
		355					360					365			
Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys
	370					375					380				
Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser
385					390					395					400
Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser
				405					410					415	
Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser
			420					425					430		
Leu	Ser	Leu	Ser	Pro	Gly	Lys									
		435													
<210>	31														
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<212>	PRT														
<213>	Homo sapiens														

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<400>      31
Val Arg Leu Ile His Gly Thr Val Gly Lys Ser Ala Leu Leu Ser Val
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Gln Tyr Ser Ser Thr Ser Ser Asp Arg Pro Val Val Lys Trp Gln Leu
          20          25          30

Lys Arg Asp Lys Pro Val Thr Val Val Gln Ser Ile Gly Thr Glu Val
          35          40          45

Ile Gly Thr Leu Arg Pro Asp Tyr Arg Asp Arg Ile Arg Leu Phe Glu
50          55          60

Asn Gly Ser Leu Leu Leu Ser Asp Leu Gln Leu Ala Asp Glu Gly Thr
65          70          75          80

Tyr Glu Val Glu Ile Ser Ile Thr Asp Asp Thr Phe Thr Gly Glu Lys
          85          90          95

Thr Ile Asn Leu Thr Val Asp Val Pro Ile Ser Arg Pro Gln Val Leu
          100          105          110

Val Ala Ser Thr Thr Val Leu Glu Leu Ser Glu Ala Phe Thr Leu Asn
          115          120          125

Cys Ser His Glu Asn Gly Thr Lys Pro Ser Tyr Thr Trp Leu Lys Asp
          130          135          140

Gly Lys Pro Leu Leu Asn Asp Ser Arg Met Leu Leu Ser Pro Asp Gln
145          150          155          160

Lys Val Leu Thr Ile Thr Arg Val Leu Met Glu Asp Asp Asp Leu Tyr
          165          170          175

Ser Cys Met Val Glu Asn Pro Ile Ser Gln
          180          185

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